

Algebra II CP  
Unit 7 Part 2 Test Review

Name \_\_\_\_\_  
Date \_\_\_\_\_

I. Solve and graph the solutions.

1)  $m < -5$

2)  $4x - 8 + 6 < 42$

3)  $-2(3z + 1) < 22$

4)  $3x - 22 < 5(2 - x)$

5)  $x > 5$  and  $x > 9$

6)  $3(3x - 2) - 6 < 2x$  and  $-x + 3 < 9(x + 1)$

7)  $w < -8$  or  $w > 10$

8)  $3(x + 1) < 5(2x + 1)$  or  $x - 2 < -6x - 4$

$$9) | -7x+3 | - 4 > 5$$

$$10) | 4x - 5 | < 2$$

V. Solve the word problems.

11) Tyler bowled 121, 118, 132, 124, and 125, in five games. What must he bowl in the sixth game so that he will have an average of greater than 125 for the six games?

12) A pond is in the shape of a triangle. The longest side of the pond is three times as large as the shortest side and the third side is 10 m. more than the shortest side. If the perimeter of the garden is no more than 90 m., what is the largest possible value for the shortest side?